

I CLAIM:

1. A heat-dissipating fan device comprising:

a fan housing having a base wall, and a surrounding wall that extends from said base wall, said base wall
5 being formed with a bearing seat extending in an axial direction transverse to said base wall;

a first stator coil mounted securely around said bearing seat;

a fan impeller including a fan cap that has an outer
10 cap surface formed with a plurality of radial fan blades, and a spindle disposed in said fan cap, extending in the axial direction and mounted rotatably on said bearing seat;

a first magnetic ring member disposed around said
15 first stator coil and coupled co-rotatably to said fan cap such that a magnetic field induced by an external electrical current supplied to said first stator coil results in rotation of said fan impeller with said first magnetic ring member;

20 a circuit board disposed in said fan cap and mounted co-rotatably to said fan impeller;

a plurality of light emitting elements mounted on and connected electrically to said circuit board;

a second stator coil mounted on and electrically
25 coupled to said circuit board and disposed around said spindle; and

a second magnetic ring member mounted securely in

said fan housing and disposed around said second stator coil such that rotation of said second stator coil with said fan impeller results in an induced electrical current in said second stator coil that is to be supplied to said light emitting elements.

2. The heat-dissipating fan device as claimed in Claim 1, wherein said circuit board has a surface disposed distal to said base wall of said fan housing, disposed to confront said fan cap, and mounted with said light emitting elements.

3. The heat-dissipating fan device as claimed in Claim 2, wherein said light emitting elements are arranged in a radial direction with respect to said spindle.

4. The heat-dissipating fan device as claimed in Claim 1, wherein said fan cap is made of a transparent material.

5. The heat-dissipating fan device as claimed in Claim 2, wherein said fan cap is formed with a plurality of through holes corresponding to said light emitting elements.